
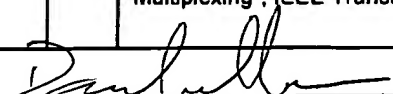
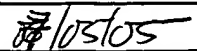


Sheet 1 of 1		INFORMATION DISCLOSURE STATEMENT					
FORM PTO 1449 (modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE LIST OF REFERENCES CITED BY APPLICANT(S) <i>(Use several sheets if necessary)</i> Date Submitted to PTO: April 11, 2005		ATTY DOCKET NO. 2000_1390 APPLICANT Mitsuaki OSHIMA et al. FILING DATE October 5, 2000		SERIAL NO. 09/677,420 GROUP 2634			
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
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FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AJ						
	AK						
	AL						
	AM						
	AN						
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
DA	AO	J. A. C. Bingham, "Multicarrier Modulation for Data Transmission: An Idea Whose Time Has Come", IEEE Communications Magazine, Vol. 28, May 1990, pages 5-8 and 11-14					
DA	AP	B. Hirosaki, "An Orthogonally Multiplexed QAM System Using the Discrete Fourier Transform", IEEE Transactions on Communications, Vol. Com-29, No. 7, July 1981, pages 982-989					
DA	AQ	L. J. Cimini, Jr., "Analysis and Simulation of a Digital Mobile Channel Using Orthogonal Frequency Division Multiplexing", IEEE Transactions on Communications, Vol. Com-33, No. 7, July 1985, pages 665-675 and Annex					
EXAMINER 				DATE CONSIDERED 			

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include cop. this form with next communication to applicant.

Sheet 1 of 3		INFORMATION DISCLOSURE STATEMENT					
FORM PTO 1449 (modified)		ATTY DOCKET NO. 2000_1390				SERIAL NO. 09/677,420	
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		APPLICANT Mitsuaki OSHIMA et al.					
LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)		FILING DATE October 5, 2000				GROUP 2634	
Date Submitted to PTO: March 23, 2005							
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
DA	AA	3,824,548	7-16-74	Sullivan et al.	_____	_____	_____
	AB	3,959,726	5-25-76	Hinoshita et al.	_____	_____	_____
	AC	4,303,939	12-1-81	Stephens et al.	_____	_____	_____
	AD	4,303,941	12-1-81	Marti et al.	_____	_____	_____
	AE	4,309,726	1-5-82	Tanaka et al.	_____	_____	_____
	AF	4,535,352	8-85	Haskell	_____	_____	_____
	AG	4,564,858	1-14-86	Resch	_____	_____	_____
	AH	4,581,639	4-8-86	Judge	_____	_____	_____
	AI	4,769,819	9-6-88	Matsutani et al.	_____	_____	_____
	AJ	4,794,447	12-27-88	Tsinberg	_____	_____	_____
	AK	4,817,192	3-28-89	Phillips et al.	_____	_____	_____
	AL	5,029,003	7-91	Jonnalagadda	_____	_____	_____
	AM	5,134,464	7-28-92	Basile et al.	_____	_____	_____
	AN	5,400,084	3-21-95	Scarpa	_____	_____	_____
	AO						
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
	AP						
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
	AQ						
	AR						
EXAMINER				DATE CONSIDERED 07/05/05			

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Sheet 2 of 3		INFORMATION DISCLOSURE STATEMENT					
FORM PTO 1449 (modified)		ATTY DOCKET NO. 2000_1390			SERIAL NO. 09/677,420		
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		APPLICANT Mitsuaki OSHIMA et al.					
LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)		FILING DATE October 5, 2000			GROUP 2634		
Date Submitted to PTO: March 23, 2005							
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
DH	AA	5,181,112	1-19-93	Citta et al.	—	—	—
	AB	5,377,051	12-27-94	Lane et al.	—	—	—
	AC	5,576,902	11-19-96	Lane et al.	—	—	—
	AD	5,218,622	6-8-93	Fazel et al.	—	—	—
	AE	5,561,468	10-1-96	Bryan et al.	—	—	—
	AF	5,802,241	9-1-98	Oshima	—	—	—
	AG	5,007,088	4-9-91	Ooi et al.	—	—	—
DH	AH	5,170,413	12-8-92	Hess et al.	—	—	—
	AI						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
DH	AJ	3-69295	3-25-91	Japan	—	—	X
DH	AK	2-260726	10-23-90	Japan	—	—	X
DH	AL	58-161427	9-26-83	Japan	—	—	abstract
DH	AM	57-39629	3-4-82	Japan	✓	—	abstract
DH	AN	58-161547	9-26-83	Japan	—	—	abstract
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
	AO						
	AP						
	AQ						
EXAMINER				DATE CONSIDERED 07/05/05			

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Sheet 3 of 3

FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

LIST OF REFERENCES CITED BY APPLICANT
(Use several sheets if necessary)

Date Submitted to PTO: March 23, 2005

ATTY DOCKET NO.
2000_1390

SERIAL NO.
09/677,420

APPLICANT
Mitsuaki OSHIMA et al.

FILING DATE
October 5, 2000

GROUP
2634

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
DH	AA	5,128,758	7-7-92	Azadegan et al.			
	AB	5,038,402	8-6-91	Robbins			
	AC	5,638,112	6-10-97	Bestler et al.			
	AD	5,063,445	11-5-91	Nishizawa et al.			
	AE	5,819,000	10-6-98	Oshima			
	AF	5,999,569	12-7-99	Oshima			
	AG	5,892,879	4-6-99	Oshima			
	AH	6,049,651	4-11-00	Oshima			
DA	AI	6,256,357	7-3-01	Oshima			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
DA	AJ	63-180222	7-25-88	Japan			abstract
DA	AK	2-94814	4-5-90	Japan			abstract
DA	AL	61-70861	4-11-86	Japan			abstract
DA	AM	2-218279	8-30-90	Japan			abstract
DII	AN	2,095,435	5-10-92	Canada			X
DA	AO	91/20137	12-26-91	WO			X
DA	AP	92/22162	12-10-92	WO			X

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

AQ	
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EXAMINER *[Signature]* DATE CONSIDERED 07/05/05

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FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)
(Use several sheets if necessary)

Date Submitted to PTO: July 20, 2004

ATTY DOCKET NO.
2000_1390SERIAL NO.
09/677,420APPLICANT
Mitsuaki OSHIMA et al.FILING DATE
October 5, 2000GROUP
2634

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
<i>DA</i>	AJ	2-154583	6-13-90	Japan			abstract
	AK						
	AL						
	AM						
	AN						

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>DA</i>	AO	Shigeki MORIYAMA et al., "Delay Propagation Characteristics at VHF and UHF bands in Urban Area", 1991 Spring National Convention Record, The Institute of Electronics, Information and Communication Engineers, Part 2, p. 406, March 15, 1991
<i>DA</i>	AP	Yasuhiro ITO et al., "Adaptive Weighted Code Division Multiplexing (AW-CDM) Transmission System for Terrestrial Digital Television Broadcasting", ITE Technical Report Vol. 17, No. 13, pp 27-32, February 25, 1993
	AQ	
EXAMINER	<i>Da Luller</i>	
	DATE CONSIDERED	<i>07/05/05</i>